

0590

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0702 #6



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RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/10/053,355A

DATE: 06/28/2002 P  
 TIME: 11:18:29

Input Set : A:\PTO.PG.txt  
 Output Set: N:\CRF3\06282002\J053355A.raw

3 <110> APPLICANT: Rossi, Alex  
 5 <120> TITLE OF INVENTION: Production of Cultured Human Mast Cells and Basophils for  
 High Throughput  
 6 Small Molecule Drug Discovery  
 8 <130> FILE REFERENCE: A-70882/RMS/AMS  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/053,355A  
 C--> 10 <141> CURRENT FILING DATE: 2002-06-18  
 10 <150> PRIOR APPLICATION NUMBER: US 60/316,723  
 11 <151> PRIOR FILING DATE: 2001-08-31  
 13 <160> NUMBER OF SEQ ID NOS: 42  
 15 <170> SOFTWARE: PatentIn version 3.1  
 17 <210> SEQ ID NO: 1  
 18 <211> LENGTH: 156  
 19 <212> TYPE: PRT  
 20 <213> ORGANISM: Homo sapiens  
 22 <400> SEQUENCE:  
 24 Met Thr Gln Asp Cys Ser Phe Gln His Ser Pro Ile Ser Ser Asp Phe  
 25 1 5 10 15  
 28 Ala Val Lys Ile Arg Glu Leu Ser Asp Tyr Leu Leu Gln Asp Tyr Pro  
 29 20 25 30  
 32 Val Thr Val Ala Ser Asn Leu Gln Asp Glu Glu Leu Cys Gly Gly Leu  
 33 35 40 45  
 36 Trp Arg Leu Val Leu Ala Gln Arg Trp Met Glu Arg Leu Lys Thr Val  
 37 50 55 60  
 40 Ala Gly Ser Lys Met Gln Gly Leu Leu Glu Arg Val Asn Thr Glu Ile  
 41 65 70 75 80  
 44 His Phe Val Thr Lys Cys Ala Phe Gln Pro Pro Pro Ser Cys Leu Arg  
 45 85 90 95  
 48 Phe Val Gln Thr Asn Ile Ser Arg Leu Leu Gln Glu Thr Ser Glu Gln  
 49 100 105 110  
 52 Leu Val Ala Leu Lys Pro Trp Ile Thr Arg Gln Asn Phe Ser Arg Cys  
 53 115 120 125  
 56 Leu Glu Leu Gln Cys Gln Pro Asp Ser Ser Thr Leu Pro Pro Pro Trp  
 57 130 135 140  
 60 Ser Pro Arg Pro Leu Glu Ala Thr Ala Pro Thr Ala  
 61 145 150 155  
 64 <210> SEQ ID NO: 2  
 65 <211> LENGTH: 165  
 66 <212> TYPE: PRT  
 67 <213> ORGANISM: Homo sapiens  
 69 <400> SEQUENCE: 2  
 71 Met Glu Gly Ile Cys Arg Asn Arg Val Thr Asn Asn Val Lys Asp Val  
 72 1 5 10 15  
 75 Thr Lys Leu Val Ala Asn Leu Pro Lys Asp Tyr Met Ile Thr Leu Lys

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76	20	25	30	
79	Tyr Val Pro Gly Met Asp Val Leu Pro Ser His Cys Trp Ile Ser Glu			
80	35	40	45	
83	Met Val Val Gln Leu Ser Asp Ser Leu Thr Asp Leu Leu Asp Lys Phe			
84	50	55	60	
87	Ser Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu			
88	65	70	75	80
91	Val Asn Ile Val Asp Asp Leu Val Glu Cys Val Lys Glu Asn Ser Ser			
92	85	90	95	
95	Lys Asp Leu Lys Lys Ser Phe Lys Ser Pro Glu Pro Arg Leu Phe Thr			
96	100	105	110	
99	Pro Glu Glu Phe Phe Arg Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys			
100	115	120	125	
103	Asp Phe Val Val Ala Ser Glu Thr Ser Asp Cys Val Val Ser Ser Thr			
104	130	135	140	
107	Leu Ser Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met			
108	145	150	155	160
111	Leu Pro Pro Val Ala			
112	165			
115	<210> SEQ ID NO: 3			
116	<211> LENGTH: 184			
117	<212> TYPE: PRT			
118	<213> ORGANISM: Homo sapiens			
120	<400> SEQUENCE: 3			
122	Pro Val Pro Pro Gly Glu Asp Ser Lys Asp Val Ala Ala Pro His Arg			
123	1	5	10	15
126	Gln Pro Leu Thr Ser Ser Glu Arg Ile Asp Lys Gln Ile Arg Tyr Ile			
127	20	25	30	
130	Leu Asp Gly Ile Ser Ala Leu Arg Lys Glu Thr Cys Asn Lys Ser Asn			
131	35	40	45	
134	Met Cys Glu Ser Ser Lys Glu Ala Leu Ala Glu Asn Asn Leu Asn Leu			
135	50	55	60	
138	Pro Lys Met Ala Glu Lys Asp Gly Cys Phe Gln Ser Gly Phe Asn Glu			
139	65	70	75	80
142	Glu Thr Cys Leu Val Lys Ile Ile Thr Gly Leu Leu Glu Phe Glu Val			
143	85	90	95	
146	Tyr Leu Glu Tyr Leu Gln Asn Arg Phe Glu Ser Ser Glu Glu Gln Ala			
147	100	105	110	
150	Arg Ala Val Gln Met Ser Thr Lys Val Leu Ile Gln Phe Leu Gln Lys			
151	115	120	125	
154	Lys Ala Lys Asn Leu Asp Ala Ile Thr Thr Pro Asp Pro Thr Thr Asn			
155	130	135	140	
158	Ala Ser Leu Leu Thr Lys Leu Gln Ala Gln Asn Gln Trp Leu Gln Asp			
159	145	150	155	160
162	Met Thr Thr His Leu Ile Leu Arg Ser Phe Lys Glu Phe Leu Gln Ser			
163	165	170	175	
166	Ser Leu Arg Ala Leu Arg Gln Met			
167	180			
170	<210> SEQ ID NO: 4			

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171 <211> LENGTH: 130  
172 <212> TYPE: PRT  
173 <213> ORGANISM: Homo sapiens  
175 <400> SEQUENCE: 4  
177 Met His Lys Cys Asp Ile Thr Leu Gln Glu Ile Ile Lys Thr Leu Asn  
178 1 5 10 15  
181 Ser Leu Thr Glu Gln Lys Thr Leu Cys Thr Glu Leu Thr Val Thr Asp  
182 20 25 30  
185 Ile Phe Ala Ala Ser Lys Asn Thr Thr Glu Lys Glu Thr Phe Cys Arg  
186 35 40 45  
189 Ala Ala Thr Val Leu Arg Gln Phe Tyr Ser His His Glu Lys Asp Thr  
190 50 55 60  
193 Arg Cys Leu Gly Ala Thr Ala Gln Gln Phe His Arg His Lys Gln Leu  
194 65 70 75 80  
197 Ile Arg Phe Leu Lys Arg Leu Asp Arg Asn Leu Trp Gly Leu Ala Gly  
198 85 90 95  
201 Leu Asn Ser Cys Pro Val Lys Glu Ala Asn Gln Ser Thr Leu Glu Asn  
202 100 105 110  
205 Phe Leu Glu Arg Leu Lys Thr Ile Met Arg Glu Lys Tyr Ser Lys Cys  
206 115 120 125  
209 Ser Ser  
210 130  
213 <210> SEQ ID NO: 5  
214 <211> LENGTH: 134  
215 <212> TYPE: PRT  
216 <213> ORGANISM: Homo sapiens  
218 <400> SEQUENCE: 5  
220 Met Ala Pro Met Thr Gln Thr Thr Ser Leu Lys Thr Ser Trp Val Asn  
221 1 5 10 15  
224 Cys Ser Asn Met Ile Asp Glu Ile Ile Thr His Leu Lys Gln Pro Pro  
225 20 25 30  
228 Leu Pro Leu Leu Asp Phe Asn Asn Leu Asn Gly Glu Asp Gln Asp Ile  
229 35 40 45  
232 Leu Met Glu Asn Asn Leu Arg Arg Pro Asn Leu Glu Ala Phe Asn Arg  
233 50 55 60  
236 Ala Val Lys Ser Leu Gln Asn Ala Ser Ala Ile Glu Ser Ile Leu Lys  
237 65 70 75 80  
240 Asn Leu Leu Pro Cys Leu Pro Leu Ala Thr Ala Ala Pro Thr Arg His  
241 85 90 95  
244 Pro Ile His Ile Lys Asp Gly Asp Trp Asn Glu Phe Arg Arg Lys Leu  
245 100 105 110  
248 Thr Phe Tyr Leu Lys Thr Leu Glu Asn Ala Gln Ala Gln Thr Thr  
249 115 120 125  
252 Leu Ser Leu Ala Ile Phe  
253 130  
256 <210> SEQ ID NO: 6  
257 <211> LENGTH: 61  
258 <212> TYPE: PRT  
259 <213> ORGANISM: Artificial sequence

## RAW SEQUENCE LISTING

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Input Set : A:\PTO.PG.txt

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261 <220> FEATURE:  
262 <223> OTHER INFORMATION: coiled-coil presentation structure  
264 <400> SEQUENCE: 6  
266 Met Gly Cys Ala Ala Leu Glu Ser Glu Val Ser Ala Leu Glu Ser Glu  
267 1 5 10 15  
270 Val Ala Ser Leu Glu Ser Glu Val Ala Ala Leu Gly Arg Gly Asp Met  
271 20 25 30  
274 Pro Leu Ala Ala Val Lys Ser Lys Leu Ser Ala Val Lys Ser Lys Leu  
275 35 40 45  
278 Ala Ser Val Lys Ser Lys Leu Ala Ala Cys Gly Pro Pro  
279 50 55 60  
282 <210> SEQ ID NO: 7  
283 <211> LENGTH: 6  
284 <212> TYPE: PRT  
285 <213> ORGANISM: Artificial sequence  
287 <220> FEATURE:  
288 <223> OTHER INFORMATION: loop structure of coiled-coil presentation structure  
290 <400> SEQUENCE: 7  
292 Gly Arg Gly Asp Met Pro  
293 1 5  
296 <210> SEQ ID NO: 8  
297 <211> LENGTH: 69  
298 <212> TYPE: PRT  
299 <213> ORGANISM: Artificial sequence  
301 <220> FEATURE:  
302 <223> OTHER INFORMATION: minibody presentation structure  
304 <400> SEQUENCE: 8  
306 Met Gly Arg Asn Ser Gln Ala Thr Ser Gly Phe Thr Phe Ser His Phe  
307 1 5 10 15  
310 Tyr Met Glu Trp Val Arg Gly Gly Glu Tyr Ile Ala Ala Ser Arg His  
311 20 25 30  
314 Lys His Asn Lys Tyr Thr Thr Glu Tyr Ser Ala Ser Val Lys Gly Arg  
315 35 40 45  
318 Tyr Ile Val Ser Arg Asp Thr Ser Gln Ser Ile Leu Tyr Leu Gln Lys  
319 50 55 60  
322 Lys Lys Gly Pro Pro  
323 65  
326 <210> SEQ ID NO: 9  
327 <211> LENGTH: 7  
328 <212> TYPE: PRT  
329 <213> ORGANISM: Simian virus 40  
331 <400> SEQUENCE: 9  
333 Pro Lys Lys Lys Arg Lys Val  
334 1 5  
337 <210> SEQ ID NO: 10  
338 <211> LENGTH: 6  
339 <212> TYPE: PRT  
340 <213> ORGANISM: Homo sapiens  
342 <400> SEQUENCE: 10

## RAW SEQUENCE LISTING

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Input Set : A:\PTO.PG.txt

Output Set: N:\CRF3\06282002\J053355A.raw

344 Ala Arg Arg Arg Arg Pro  
345 1 5  
348 <210> SEQ ID NO: 11  
349 <211> LENGTH: 10  
350 <212> TYPE: PRT  
351 <213> ORGANISM: Mus musculus  
353 <400> SEQUENCE: 11  
355 Glu Glu Val Gln Arg Lys Arg Gln Lys Leu  
356 1 5 10  
359 <210> SEQ ID NO: 12  
360 <211> LENGTH: 9  
361 <212> TYPE: PRT  
362 <213> ORGANISM: Mus musculus  
364 <400> SEQUENCE: 12  
366 Glu Glu Lys Arg Lys Arg Thr Tyr Glu  
367 1 5  
370 <210> SEQ ID NO: 13  
371 <211> LENGTH: 20  
372 <212> TYPE: PRT  
373 <213> ORGANISM: Xenopus laevis  
375 <400> SEQUENCE: 13  
377 Ala Val Lys Arg Pro Ala Ala Thr Lys Lys Ala Gly Gln Ala Lys Lys  
378 1 5 10 15  
381 Lys Lys Leu Asp  
382 20  
385 <210> SEQ ID NO: 14  
386 <211> LENGTH: 31  
387 <212> TYPE: PRT  
388 <213> ORGANISM: Mus musculus  
390 <400> SEQUENCE: 14  
392 Met Ala Ser Pro Leu Thr Arg Phe Leu Ser Leu Asn Leu Leu Leu  
393 1 5 10 15  
396 Gly Glu Ser Ile Leu Gly Ser Gly Glu Ala Lys Pro Gln Ala Pro  
397 20 25 30  
400 <210> SEQ ID NO: 15  
401 <211> LENGTH: 21  
402 <212> TYPE: PRT  
403 <213> ORGANISM: Homo sapiens  
405 <400> SEQUENCE: 15  
407 Met Ser Ser Phe Gly Tyr Arg Thr Leu Thr Val Ala Leu Phe Thr Leu  
408 1 5 10 15  
411 Ile Cys Cys Pro Gly  
412 20  
415 <210> SEQ ID NO: 16  
416 <211> LENGTH: 51  
417 <212> TYPE: PRT  
418 <213> ORGANISM: Mus musculus  
420 <400> SEQUENCE: 16  
422 Pro Gln Arg Pro Glu Asp Cys Arg Pro Arg Gly Ser Val Lys Gly Thr

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/28/2002  
PATENT APPLICATION: US/10/053,355A TIME: 11:18:30

Input Set : A:\PTO.PG.txt  
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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq# : 40; Xaa Pos. 3,4,5,6

### Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5

VERIFICATION SUMMARY DATE: 06/28/2002  
PATENT APPLICATION: US/10/053,355A TIME: 11:18:30

Input Set : A:\PTO.PG.txt  
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L:10 M:270 C: Current Application Number differs, Replaced Current Application No  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0